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CONNECTION-80 BBS

A PUBLIC BULLETIN BOARD

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INTRODUCTION

Welcome to the powerful world of Telecomputing. This BBS system is designed to allow you to transform you Model I or Model III TRS-80 (tm) into a sort of time share computer for the use and enjoyment of others.

This system was written by Tom Vande-Stouwe. CONNECTION-80 is Copyrighted (C) 1980 and may not be reproduced without permission. The user agrees to safe guard this system from misuse as part of the software agreement for this package. CONNECTION-80 is a Registered Trade Mark of B.T. Enterprises, and may not be used without the written permission of B.T. Enterprises.

Bulletin Boards have been with us for a number of years now, but have only reached the present level of use within the last 12 to 18 months. This has been evidenced by the rapid growth of privately owned hobby systems in the country. In 1980 there were about 150 public BBS systems in use throughout the country, and today that number is well over 1000. Predictions state that there will be over 5000 BBS systems in use by the beginning of 1983.

This growth is the reason for systems like CONNECTION-80 (tm). Your particular use for this system is only restricted by your imagination.

This manual has been designed to assist you in setting up your BBS system. It make certain assumptions regarding your knowledge of Telecommunications and modems. If you need more information than is contained in this system, please contact the dealer where you purchase it for additional assistance.

SETTING UP

In order to set up your system, it is necessary for your system to have all of the necessary hardware to support a BBS. Please check the list below, and be sure that ALL of the required equipment is available on your system. If not, then the BBS will not run properly.

NECESSARY HARDWARE

- 1.) 48K MODEL I OR MODEL III TRS-80
- 2.) MINIMUM 2 DISK DRIVES
- 3.) RS232-C INTERFACE *
- 4.) MODEM WITH AUTO ANSWER CAPABILITY
- 5.) PRINTER
- 6.) DISK OPERATING SYSTEM
- 7.) MINIMUM 2 BLANK DISKETTES
- 8.) A TELEPHONE LINE TO MODEM
- *.) IF CHATTERBOX, LYNX MODEM, OR PORT- ADDRESSED AUTO CONNECTION IS USED, THEN RS232-C INTERFACE WILL NOT BE NEEDED. THE PORT ADDRESSED AUTO CONNECTION REQUIRES THE USE OF A SPECIAL DRIVER, AND IS NOT AVAILABLE FOR THE MODEL III AT THIS TIME.

Place your computer in a location of your choice, and hook up the equipment. Using Drive O to hold your operating system (DOS), put the diskette with the program on it in drive #1. It is a good idea to backup the diskette first, as this may be helpful in the event of a 'crash'.

CONNECTION-80 for the Model I is supplied on a self booting transfer disk and may be transferred to an operating system disk on a one drive system. However, the system will require a minimum of 2 drives to function properly.

If you are using a Model III, transfer the files from the distribution disk to your operating system disk. The distribution disk is a single density 35 track disk, and the files can be transferred to TRS-DOS with the CONVERT command. NewDos/80 uses the PDRIVE and MDIRP commands. DosPlus, use the CONVERT :1 command.

After backing up the diskette, place the backup in drive #1 and copy all of the files from the diskette to the operating system diskette. Then place a blank diskette in drive #1 and format it.

From the Dos Ready prompt, enter 'AUTO MS806Ty x' and press enter. The 'x' represents the Operating system that you are using. To display the options, type 'MS806Ty' (The y being a 1 for Model I and a 3 for Model III) and a parameter error will occur and the allowable parameters will be displayed. This will set up the system to run the driver after each reboot. This will be useful in the event of a nower failure.

If the system has been properly hooked up, then pressing the reset button should bring the system to life. Do that now, and if everything is OK, then the system should automatically chain itself to life. After about 70 seconds, the screen should read

Connection-80 by B.T. Enterprises (c) 1981

00:01:00

By Thomas E. Vande-Stouwe

Next Caller will be #1

Last message in system is # 0

Last on System was

Name

TOM VANDE-STOUWE

From TIME CONNECTION-80 HQ 06/22/81 10:00:00

Currently O Messages in the System

[Graphic Blocks]

Last reset at 00:01:00

The system has booted, and is capable of receiving a call but do not put the system on line at this time. There are a number of changes to be made to set the system up as YOUR system.

SIGNON MESSAGES

The system has the capacity to store many messages that you create for use by the callers. They can be accessed from different parts of the system, and should reflect the type of information that would be expected by the user. The first of these files is the Signon Message. After the user establishes contact with the system, and answers a number of question regarding the type of system he is using, he is asked if he wishes to read the Signon Messages. This is a file

that you create which contains any news about the system, or possibly the community or a club. The content is entirely up to you. For information on creating this file, see the File Creation section later in the manual.

BULLETIN FILES

In addition to the signon messages, the menu allows the user the option of reading files from a few different locations. One of these locations, is the Bulletin section (Labeled Feature section on some systems). This section is set up to allow the user to view a number of ASCII files provided by you, and to be able to select them from a menu. The files are present on the disk you received, but contains dummy information. To change this to live files, follow the format in the File Creation section of this manual.

INFORMATION

Like the other file sections, this section allow you to put in a file for users to read. The suggested use of this file is to inform the users of the system, what the type and configuration of the system is. It also is a location to put any special interests you may have. For information on forming this file, see the File Creation section.

DOWNLOAD

This section is also a menu driven section of the BBS. It allows you to place files, programs and printouts into the system for the use by the users of your system. Information on these files will be found in the File Creation section of this documentation.

MERCHANDISE

If you are running your system as part of a commercial venture, then this section may be useful to you. This section will allow you to list products and services for purchase by the user of the system. Each item for sale is entered as a separate file, so updating the file is easy. The exact format will again be found in the File Creation section of this manual.

SYSOP SIGNON

When you sign onto your system, you are given a great deal of power over the system. It is for this reason that your signon is different than the general public. If you are at the keyboard of the system, the protocol is simple. Just hit the right arrow key, and the system will automatically log you in as 'SYSOP' and drop all protection levels on private message. It will also offer you the option of deleting any message in the system. If you are signing on from a remote location, you will need to signon as 'SYSOP'. This is not possible from the name entry section, as it will ask for your first name also, and add it to the front of the name SYSOP and put a space between. This would not properly sign you on as 'SYSOP'. The code used to sign you on remotely can be found in line 220. On that line you will find that SI\$ has been set equal to "+++,.". This is the SYSOP signon as it comes to you. To change it to a code of your choice, just edit the lane and place in any UPPER CASE letters and/or numbers and symbols up to 11 characters long. You will use this at the enter last name question when signing in remotely.

REMOTE BREAK

A vary powerful feature of the BBS is the ability of the SYSOP to terminate the activity of the BBS from a remote lometton, and while still in control, run another program, or list another file. This powerful feature is also very dangerous if an unauthorized user is able to perform this function. The BBS protection is totally disabled after the BBS has been broken, and function such as 'KILL' 'COPY' 'FORMAT' 'BACKUP' etc will all work. To prevent this, a 4 step process is required to terminate the BBS from a remote location. Two characters must be entered in the proper order. These two characters can be found in lines 109 and 220. In line 109 M\$ is set to a long string of letters, and one symbol near the end. This is the first of the Break characters. If entered from the main menu, it will print and not return an error message. The second character can be found in line 220. It is the character assigned to HK\$. The proper sequence is to enter the first character from the main menu, and within 2 seconds enter the second character. If these two steps are not done properly, the system will ignore the input and continue with the main menu as if nothing has happened.

CONNECTION-80 INSTRUCTIONS

If the sequence is carried out correctly, then the system will respond with the prompt 'Password ?'. The password can be found in line 220 as the string assigned to MP\$. It is set to PASSWORD and should be changed as soon as you receive the system. If the proper password is entered at this point, the system will respond with the prompt.

BREAK IN 219

Ready

The system appears to have broken, but it has not. This step is to stop an accidental entry. Unless the password is again entered at this point, the system will IMMEDIATELY terminate the user without further warning. A message will be printed to the printer advising you of the near break. Incorrect password attempts at the password level will also be logged to the printer, and the system will only tolerate 3 attempts at the password before terminating the user.

CHAT

On of the most friendly features of the system is the chat function. This section will allow you to 'Keyboard' with another user. When the user requests a chat, the system will send 5 bell codes to the printer. If your system's printer has a bell, it will ring. If not, then the message on the screen will be your indication that a user is requesting a chat. To accept the chat, press the '+' key to enter the chat mode. To end the chat, enter the word End as a separate line after a > prompt.

FILE CREATION

CONNECTION-80 has the ability to send text files out over the modem to users. This is the most powerful feature of the entire system. To utilize this power, you will need a word processor program, or some form of text generator. If you do not have a program as Electric Pencil or Scripsit, then you may find the program at the end of this manual useful. If you are using a word processor (as EP or Scripsit), then write the text file you wish to display, and place a CR at the end of each line. When you are happy with the format of the text, then save it to disk with the name corresponding to the section you wish it listed under. (If using Scripsit, save the file as an ASCII file with the A attribute)

To decide on a file name, please follow the following guidelines. Each of the four file section of the BBS (ie Bulletins, Downloading, Info. and Merchandise) each have separate files with a four letter prefix referencing it to the type of file. For example the Downloading section files all begin with the prefix 'DOWN'. All of the files have the extension '/PCL'. In the Download section, all of the files are name 'DOWNxxxx/PCL'. xxxx can be any set of numbers and/or characters from 0 to 4 in length. The files with only the name of the section (as DOWN/PCL) are the files that contain the menus for the section. This is the 'page' that is displayed when the user asks for that section from the main menu. This file should contain information on using the section, as well as a list of selections for the section. A second file that is nearly identical is the 'H' file. (as DOWNH/FCL). This file is the file that will be called when the user asks for help from the bottom of a page, or when entering the section in the 'Xpert' user mode. This file should contain the same menu as the file without the H. but should not include the explanation of the use of the section.

The DOWNLOAD section has an additional feature. When selected, the system automatically opens and closes the buffer on an intelligent terminal program like UNITERM if the user is using one. The protocol is very simple. If you wish to have the buffer opened and closed for the user, then name the file 'DOWNxxxx/PCL' where xxxx is a number from 10 to 9799. When selected from the menu (Menu selections should match the number after the DOWN...) The system will call the file from disk and send it out over the modem, sending a code to open the buffer first. When the transmission is complete, then the system will send another code to close the buffer enabling the user to save it to disk or tape for future use.

Basic program can be put on the system for downloading by first loading the program into memory, and then saving it out to the disk as an ASCII file. ex 'SAVE"DOWN37/PCL:2",A' will save download file number 37 to disk #2 as an ASCII file ready for downloading. NOTE: Do not put copyrighted software on your system for download, as it is an infringement of the Copyright laws, and the legal ramifications are very serious!

The same protocol is used for the other sections, and a file by the name of 'DOWN/PCL', 'DOWNH/PCL', 'INFO/PCL', 'INFO/PCL', 'BULL/PCL', 'BULLH/PCL', 'PROD/PCL', PRODH/PCL' AND 'SIGNON/PCL' should be on the disk at all times.

In order to more efficiently utilize string space, the system will read the files from the disk as a random access file. This will speed up the process, but the EOF (End of File) marker may not be in the proper location if the file was saved in a sequential manner. To correct this, a 00Hex is added to the end of the file to tell the system where to stop printing. If you are using EP or the file utility in the back of the manual, then you need not concern yourself with this, as it will be done automatically. If not, please use the utility at the end called 'PUTZRO/BAS' or use 'SUPERZAP' to 'ZAP' in a 00 at the end of the file.

CUSTOMIZING YOUR SYSTEM

To set the system up as YOUR system, it will be necessary for you to edit the BASIC program. Please be familiar with the TRS-80 BASIC Edit functions, if not, please refer to the Level II Reference manual for more information.

The first modification to the system should be made in line #35. The line at present reads:

35 PRINT:PRINT"Welcome to CONNECTION-80 of ":PRINTB1\$:PRINTB2\$:PRINT"Please Hit <ENTER> if you are a TRS-80"

This line should be edited to add the name of the Town and State that your system will be functioning from in the blank spaces provided. (You may use more or less space, as desired). The next change should be made in line #1. You will find two string variables called B1\$, and B2\$ both set to "". You should put any messages that you want everyone to see in these two variables. They will be displayed after the welcome message when a person make connection with the system.

DOS CHANGES

The CONNECTION-80 system was designed to run on one of the higher level Disk Operating Systems. It is recommended that you use on of the following DOS's with CONNECTION-80.

DOSPLUS (3.3 or Higher)	[3]
NENDOS80 (1.0 or 2.0)	[3]
VTOS (4.0 or higher)	[13
LDOS (5.01 or higher)	[1]

After you have decided which system to use, edit line #0 of the program to pass the proper user call to the Driver. The user call will be found near the end of the line as follows. 0 ...X=USRO(?):...

Replace the ? with the proper parameter as shown in the table above (the number in the []'s).

If you are using an operating system other than listed above, then some of the functions of the BBS will not work properly. The functions that read the files from the disk (INFO, PROD, BULL, DOWN, SIGNON) will not work due to the inability of the other systems (TRSDOS, NEWDOS 2.1) to field a 256 Byte field. A patch is available for this situation; please contact B.T. Enterprises for info.

TIME AND CLOCK

The system will display the time on the screen for the operator, and will keep track of the users of the system, by reading the TIME\$ from BASIC. If you are using a hardware clock (TIC-TOC-80(tm)) on your Model I, then you need only remove the Rem (') statement from line 249. If not, then you will need to set the time on the system after a power up sequence. If the system was set, and only rebooted, then this will not be necessary, as the driver stores the time and date and reloads it after a reboot.

If the System finds that the year register of the clock has reset to 00, then when the system recycles it will prompt for time and date input for 5 seconds. If no response is received in 5 seconds, then the system will continue. This will prevent the system from locking up after a power out.

TIC-TOC-80(tm) is available from the vendor you purchased this system from if you desire accurate time and date.

UTILITY PROGRAMS

MAKEFILE/BAS

- 10 CLEAR 1000
- 20 INPUT"Enter name of file to be saved to disk"; A\$
- 30 INPUT"Enter drive to be saved on (0-3)";B\$
- 40 C\$=A\$+":"+B\$
- 50 OPEN"O",1,C\$
- 60 CLS
- 70 PRINT"Type 'EOF' on a separate line to end input"
- 80 PRINT"Hit the ENTER key at the end of each line"
- 90 PRINT
- 100 LINEINPUT">";D\$
- 110 IF D\$="EOF"THENPRINT#1, CHR\$(0):CLOSE:END
- 120 PRINT#1,D\$
- 130 GOT0100

The file above can be used locally to create a file for the BBS, or if desired, can be used to transmit a file from a remote location to the BBS.

The next program is called 'PUTZRO/BAS'. It is is designed to be used to put a OOHex at the end of a file if your word processor (as Scripsit) does not do so. It is not necessary if you use the MAKEFILE/BAS program above.

PUTZRO/BAS

- 10 CLEAR100
- 20 CLS
- 30 INPUT"Enter name of file to be done";A\$
- 40 OPEN"E",1,A\$
- 50 PRINT#1, CHR\$(0)
- **60 CLOSE**
- 70 PRINT"Enter A for another, E to end"
- 80 I \$= INKEY \$: IF I \$= " "THEN80
- 90 IFI\$="A"THENRUN
- 100 IF I #= "E" THENEND
- 110 GOTO 80



171 Hawkins Road Centereach, New York 11720

CHANGE OF STATUS

If you change your address or System Phone number, please let us know by completing this card. This way we can keep you advised of new enhancements.

NAME	
ADDRESS	
CITY, ST,	ZIP
BBS PHONE	#

CONNECTION-80 (tm)
Serial # #83152

Ver.8 . 0 6